

## PROBLEMAS DE LIMITES DE VARIAS VARIABLES

Multivariable Calculus Limit of  $x^2y/(x^2 + y^2)$  using Polar Coordinates:

<https://www.youtube.com/watch?v=VfCGwmlkJ0Q>

How to Write a Delta Epsilon Proof for the Limit of a Function of Two Variables - Advanced Calculus:

<https://www.youtube.com/watch?v=Rb3lyGshFGs>

Multivariable Calculus Limit of  $y^2/(x^2 + y^2)$  as  $(x,y)$  approaches  $(0,0)$ :

<https://www.youtube.com/watch?v=Tb-CZTFyNRw>

How to evaluate the limit of a multivariable function (introduction & 6 examples):

<https://www.youtube.com/watch?v=FJ-ofPVY5P8>

Advanced Calculus Delta Epsilon Limit Proof for a Function of Two Variables  
Limit of  $x^3/(x^2 + y^2)$ :

<https://www.youtube.com/watch?v=sv886xkysHY>

Rectangular, cylindrical, and spherical coordinates (introduction & conversion):

[https://www.youtube.com/watch?v=\\_7Gt3Lla1pk&list=PLb2SZv7eAqpnRp7wMiOap1hhlGSXGi8ap](https://www.youtube.com/watch?v=_7Gt3Lla1pk&list=PLb2SZv7eAqpnRp7wMiOap1hhlGSXGi8ap)

Rectangular, cylindrical, and spherical coordinates (introduction & conversion):

<https://www.youtube.com/playlist?list=PLb2SZv7eAqpnRp7wMiOap1hhlGSXGi8ap>

limit  $(x,y)$  approaches  $(0,0)$   $(x^2 - y^2)/(x^2 + y^2)$

<https://www.youtube.com/watch?v=ygQwWY9kwJg>

Calculus 3 Basics (calculus with multivariable functions)

<https://www.youtube.com/playlist?list=PLb2SZv7eAqpnRp7wMiOap1hhlGSXGi8ap>

How to Write a Delta Epsilon Proof for the Limit of a Function of Two Variables - Advanced Calculus

<https://www.youtube.com/watch?v=Rb3lyGshFGs>

Multivariable Calculus

<https://www.youtube.com/playlist?list=PLMOi9jYajQUzkAGmJ8YY2gqcZ97IPdqyB>

Be careful when using polar coordinates to evaluate the limit of a multivariable function

[https://www.youtube.com/watch?v=8ek\\_v0zikP0](https://www.youtube.com/watch?v=8ek_v0zikP0)

How to write an epsilon-delta proof for a limit of a multivariable function

<https://www.youtube.com/watch?v=ScOpUm2qSYk>

How to find the maximum curvature of  $y=e^x$

<https://www.youtube.com/watch?v=nBdffPVzxX0>

CALCULO MULTIVARIABLE UNI-FIIS:

[https://www.youtube.com/playlist?](https://www.youtube.com/playlist?list=PLvkR0JKWko1vvS9sreJpl8XpnMEG8Ybmx)

[list=PLvkR0JKWko1vvS9sreJpl8XpnMEG8Ybmx](https://www.youtube.com/playlist?list=PLvkR0JKWko1vvS9sreJpl8XpnMEG8Ybmx)

## **06. Límites de dos variables COORDENADAS POLARES, ejemplos resueltos**

[https://www.youtube.com/watch?](https://www.youtube.com/watch?v=0bmtedkITLM&list=PL9SnRnlzoyX0grQboBKZetLICA7LaiSOX&index=13&p)

[v=0bmtedkITLM&list=PL9SnRnlzoyX0grQboBKZetLICA7LaiSOX&index=13&p](https://www.youtube.com/watch?v=0bmtedkITLM&list=PL9SnRnlzoyX0grQboBKZetLICA7LaiSOX&index=13&p)  
[p=iAQB](https://www.youtube.com/watch?v=0bmtedkITLM&list=PL9SnRnlzoyX0grQboBKZetLICA7LaiSOX&index=13&p)

## **Calculus 3 Lecture 13.2: Limits and Continuity of Multivariable Functions (with Squeeze Th.)**

<https://www.youtube.com/watch?v=MFF4mvyhAyA>

### **Continuity of Multivariable Functions**

<https://www.youtube.com/watch?v=G0GMHto435o>

### **Multivariable Calculus: Limits and Continuity (14.2)**

<https://www.youtube.com/watch?v=T6C7PC9gwBs>

Limits of Multivariable Functions - Calculus 3

<https://www.youtube.com/watch?v=E1IMMBpz8YM>

5.3: Continuity of multivariable functions | Wellesley College Multivariable Calculus

<https://www.youtube.com/watch?v=FdGLw27a07M>

Multivariable Calculus 2 | Continuity

[https://www.youtube.com/watch?v=1\\_A3UBuyFhY](https://www.youtube.com/watch?v=1_A3UBuyFhY)

[Multivariable Calculus] Limits and Continuity for Multivariable Functions

<https://www.youtube.com/watch?v=GXm0sokeVtQ>

Continuity vs Partial Derivatives vs Differentiability | My Favorite Multivariable Function

<https://www.youtube.com/watch?v=6Wi1kT9kR1M>

5.3: Continuity of multivariable functions | Wellesley College Multivariable Calculus

<https://www.youtube.com/watch?v=FdGLw27aO7M>

Multivariable Calculus 1.2.3 - Limits and Continuity of functions of 3 or more Variables

<https://www.youtube.com/watch?v=i76kWMXMyqY>

***Calculus III: Multivariable Calculus (Vectors, Curves, Partial Derivatives, Multiple Integrals, Optimization, etc) \*\*Full Course \*\****

[https://youtube.com/playlist?  
list=PLHXZ9OQGMqxc\\_CvEy7xBKRQr6l214QJcd&si=2i4cyiY17nyKTGmY](https://youtube.com/playlist?list=PLHXZ9OQGMqxc_CvEy7xBKRQr6l214QJcd&si=2i4cyiY17nyKTGmY)